

Physiological cost index (PCI) and walking performance in individuals with transfemoral prostheses compared to healthy controls.

Hagberg K, Häggström E, Brånemark R.

Department of Orthopaedics, Göteborg University and Department of Prosthetics and Orthotics, Sahlgrenska University Hospital, Göteborg, Sweden. kerstin.hagberg@vgregion.se

Abstract

Uncomplicated methods for evaluation of prosthetic walking performance for individuals with lower limb amputations are valuable. The Physiological Cost Index (PCI), the comfortable walking speed (CWS) and self-reported walking distances are three examples of such measures. The aim was to obtain values for these measures for individuals walking with transfemoral prostheses and to compare the results with healthy controls.

Conclusion

By using uncomplicated and inexpensive methods, this study shows that walking with transfemoral prostheses is done with considerably increased energy cost, slower CWS and that limited walking distances outdoors are performed compared to healthy controls.

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